

WHAT IS CLAIMED IS:

1 1. A method of maintaining extensible markup language (XML) documents comprising:
2 splitting an XML document into fragments according to rules stored in a configuration
3 file;
4 binding each of the fragments to an object in a content management system; and
5 providing a reference between the XML document and the fragments.

1 2. The method of claim 1 further comprising
2 storing content associated with a fragment in the content management system.

1 3. The method of claim 2 further comprising
2 associating the content with a particular object in the content management system.

1 4. The method of claim 3 further comprising
2 replacing the content associated with each fragment with a link to the object in the
3 content management system.

1 5. The method of claim 3 further comprising
2 associating multiple fragments with a particular object in the content management
3 system.

1 6. The method of claim 1 further comprising
2 detecting an outgoing reference to a object attribute.

1 7. The method of claim 1 further comprising
2 ensuring the reference is unique.

1 8. The method of claim 1 further comprising
2 setting the rules according to an application.

1 9. The method of claim 1 wherein the rules include configuration rules.

- 1 10. The method of claim 1 wherein the rules include sub-rules.
- 1 11. The method of claim 1 wherein the rules include encoding rules.
- 1 12. The method of claim 9 wherein the configuration rules include a fragment rule that
2 removes a fragment from the XML document and replaces the fragment with a reference.
- 1 13. The method of claim 9 wherein the configuration rules include an unparsed object
2 rule that extracts a string associated with an unparsed object and replaces the string with a
3 reference.
- 1 14. The method of 9 wherein the configuration rules include a hyperlink rule that
2 replaces a link to another object attribute with a reference.
- 1 15. The method of claim 10 wherein the sub-rules include a pattern rule that extracts
2 textual content from a fragment.
- 1 16. The method of claim 10 wherein the sub-rules include a attribute rule that assigns
2 each object with an attribute type.
- 1 17. The method of claim 16 wherein the attribute type includes logical object (LOIO) or
2 physical object (PHIO).
- 1 18. The method of claim 10 wherein the sub-rules include a class rule that provides a
2 class name to an object.
- 1 19. The method of claim 11 wherein encoding rules include internal entity encoding
2 rules.
- 1 20. The method of claim 11 wherein encoding rules include external name encoding
2 rules.

1 21. The method of claim 11 wherein encoding rules include unparsed object encoding
2 rules.

1 22. The method of claim 11 wherein encoding rules include hyperlink encoding rules.

1 23. The method of claim 1 wherein the fragment includes a sub-fragment.
1 binding the sub-fragment to an object in a content management system; and
2 providing a reference between the fragment and the sub-fragment.

1 24. A computer program product, tangibly embodied in an information carrier, for
2 executing instructions on a processor, the computer program product being operable to cause
3 a machine to:

4 split an XML document into fragments according to rules stored in a configuration file;
5 bind each of the fragments to an object in a content management system; and
6 provide a reference between the XML document and the fragments.

1 25. The computer program product of claim 24 further configured to cause the machine
2 to store the content associated with a fragment in the content management system.

1 26. The computer program product of claim 24 further configured to cause the machine
2 to associate the content with a particular object in the content management system.

1 27. The computer program product of claim 24 further configured to cause the machine
2 to replace the content associated with each fragment with a link to the object in the content
3 management system.

1 28. The computer program product of claim 24 further configured to cause the machine
2 to associate multiple fragments with a particular object in the content management system.

1 29. The computer program product of claim 24 wherein the fragment includes a sub-
2 fragment and the computer program product is further configured to:
3 bind the sub-fragment to an object in a content management system; and

4 provide a reference between the fragment and the sub-fragment.

1 30. A system comprising:

2 a means for splitting an XML document into fragments according to rules stored in a
3 configuration file;

4 a means for binding each of the fragments to an object in a content management system;
5 and

6 a means for providing a reference between the XML document and the fragments.

1 31. The system of claim 30 further comprising a means for storing the content associated
2 with a fragment in the content management system.

1 32. The system of claim 30 further comprising a means for associating the content with a
2 particular object in the content management system.

1 33. The system of claim 30 further comprising a means for replacing the content
2 associated with each fragment with a link to the object in the content management system.

1 34. The system of claim 30 further comprising a means for associating multiple
2 fragments with a particular object in the content management system.

1 35. The system of claim 30 further comprising:

2 a means for binding a sub-fragment to an object in a content management system; and
3 a means for providing a reference between the fragment and the sub-fragment.

1 36. A method comprising the steps of:

2 a step of splitting an XML document into fragments according to rules stored in a
3 configuration file;

4 a step of binding each of the fragments to an object in a content management system; and
5 a step of providing a reference between the XML document and the fragments.

1 37. The method of claim 36 further comprising a step of storing the content associated
2 with a fragment in the content management system.

1 38. The method of claim 36 further comprising a step of associating the content with a
2 particular object in the content management system.

1 39. The method of claim 36 further comprising a step of replacing the content associated
2 with each fragment with a link to the object in the content management system.

1 40. The method of claim 36 further comprising a step of associating multiple fragments
2 with a particular object in the content management system.

1 41. The method of claim 36 further comprising:
2 a step of binding a sub-fragment to an object in a content management system; and
3 a step of providing a reference between the fragment and the sub-fragment.